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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,410	09/16/2004	Ling-Wei Ke	MTKP0079USA	5409

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EXAMINER

COX, CASSANDRA F

ART UNIT PAPER NUMBER

2816

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/711,410	Applicant(s) KE, LING-WEI	
	Examiner Cassandra Cox	Art Unit 2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 14-50 is/are allowed.
- 6) ☒ Claim(s) 1-10 and 13 is/are rejected.
- 7) ☒ Claim(s) 11-12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>09/16/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-10, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Hagberg (U.S. Patent No. 5,948,046).

In reference to claim 1 Hagberg discloses in the ABSTRACT a method for changing a selectable divisor in a programmable frequency divider (see Figure 3), the frequency divider comprising a plurality of cascaded cells (300, 301), the method comprising: (a) providing a plurality of divisor signals (I_{pgm_n}); (b) selectively switching each of the plurality of cells to a divide-by-two or a divide-by-three mode according to the plurality of divisor signals; and (c) synchronously resetting at least a part of the plurality of cells (this is seen to be done by signal i_{sw}).

In reference to claim 2 Hagberg discloses wherein in step (c) further comprise synchronously resetting all of the plurality of cells (this is seen to be done by the i_{sw} signal; see Figure 3). The same applies to claims 7, 3-4, and 9 wherein this step also allows reloading of the plurality of divisor signals.

In reference to claim 5, Hagberg discloses in column 7, lines 33-39 wherein the plurality of cells comprises at least one cell (301) having a bypass mode (the mode

when cell 301 is off), the method further comprising: determining whether to bypass at least a part of the at least one cell (301) having a bypass mode according to the plurality of divisor signals in order to inhibit bypassed cells from performing a frequency-dividing operation.

In reference to claim 6, Hagberg discloses in column 7, lines 43-46 wherein step (c) further comprises synchronously resetting each bypassed cell (turning them back on). The same applies to claim 8 wherein this step also allows reloading of the divisor signals.

In reference to claim 10, Hagberg discloses in Figure 3 a control circuit (303, 302e-g) coupled to the bypass cells (301) for providing a reset signal.

In reference to claim 13, Hagberg discloses in column 7, lines 33-39 wherein step (c) further comprises bypassing a cell (301) having a bypass mode when divisor signal input to the cell and each of its subsequent cells having a bypass mode are a logic 0.

Allowable Subject Matter

3. Claims 14-50 are allowed.
4. Claims 11-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter: Claims 11-12 would be allowable because the closest prior art of record fails to disclose a method utilizing a control circuit coupled to each of the plurality of cells for

providing a reset signal in combination with the rest of the limitations of the base claims and any intervening claims.

6. The following is an examiner's statement of reasons for allowance: Claims 14-50 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 1 wherein at least one cell (10) has a second input node (Mi) and a second output node (Mo) in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 571-272-1741. The examiner can normally be reached on Monday-Thursday from 7:00 AM to 4:30 PM and on alternate Fridays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

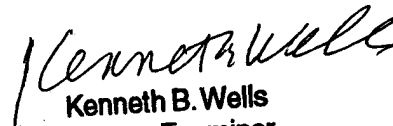
Art Unit: 2816

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CC



November 27, 2005



Kenneth B. Wells
Primary Examiner